





DEVICE FOR STORING COMPRESSED GAS

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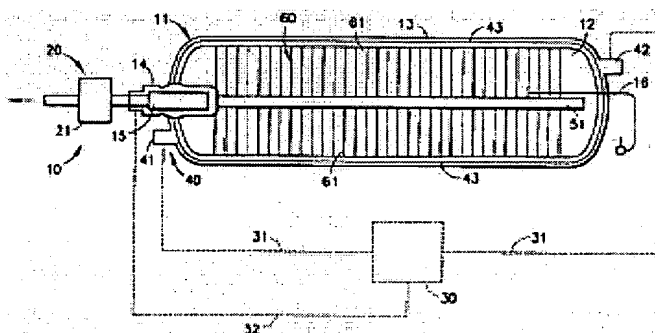
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A closed storage reservoir has at least one feed and discharge line for compressed gas and, in its interior, a gas flow control system which connects the feed and discharge line to a solid filling for storing the compressed gas in the interior. To ensure the highest possible specific storage capacity of the device and to enable the device to be used as a tank system for a fuel cell, the solid filling comprises carbon nanostructures which are joined to form larger, cohesive conglomerates. A device for measuring the filling level of the compressed gas in the storage vessel may be a device for measuring the nuclear magnetic resonance or a device for measuring the mass flow rates of the compressed gas. A temperature sensor and a heating/cooling device having an inlet connection piece and an outlet connection piece for a heating/cooling medium and a cooling passage connected to the connection pieces are provided in order to set a defined temperature in the storage vessel.



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